



Organs, Genetics, Diseases Oh My! Science and Health Resources for Middle/High School

Databases

PubMed/MEDLINE

MeSH

UMLS

ClinicalTrials.gov

MedlinePlus

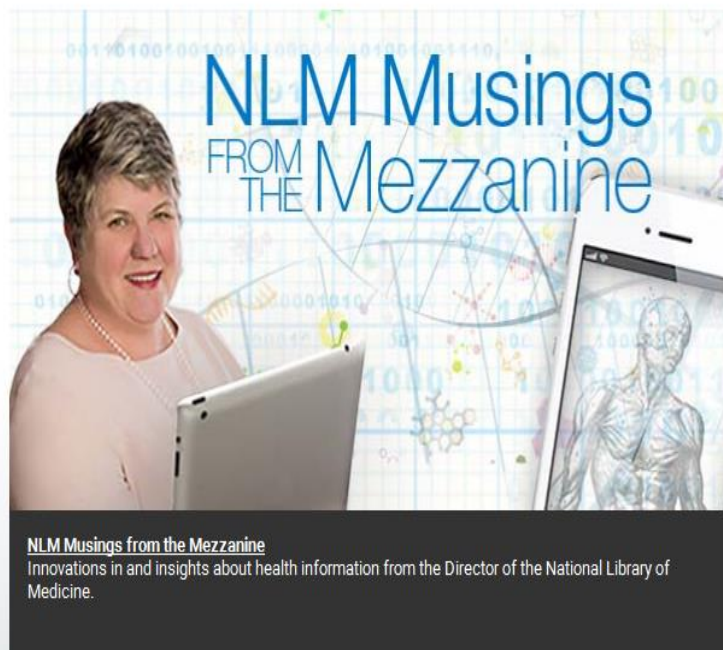
TOXNET

Images from the History of Medicine

Digital Collections

LocatorPlus

All NLM Databases & APIs



1 2 3 4

Find, Read, Learn

Search biomedical literature

Find medical terminologies

Search NLM collections

Read about diseases

Learn about drugs

Explore history

Find a clinical trial

Use a medical dictionary

Find free full-text articles

Explore NLM

About NLM

Health Information

Library Catalog & Services

History of Medicine

Online Exhibitions & Digital Projects

Research at NLM

Human Genome Resources

Biomedical Research & Informatics

Environmental Health & Toxicology

Health Services Research & Public Health

Health Information Technology

NLM for You

Grants & Funding

Meaningful Use Tools

Training & Outreach

National Network of Medical Libraries

Regional Activities

News, Events, Videos

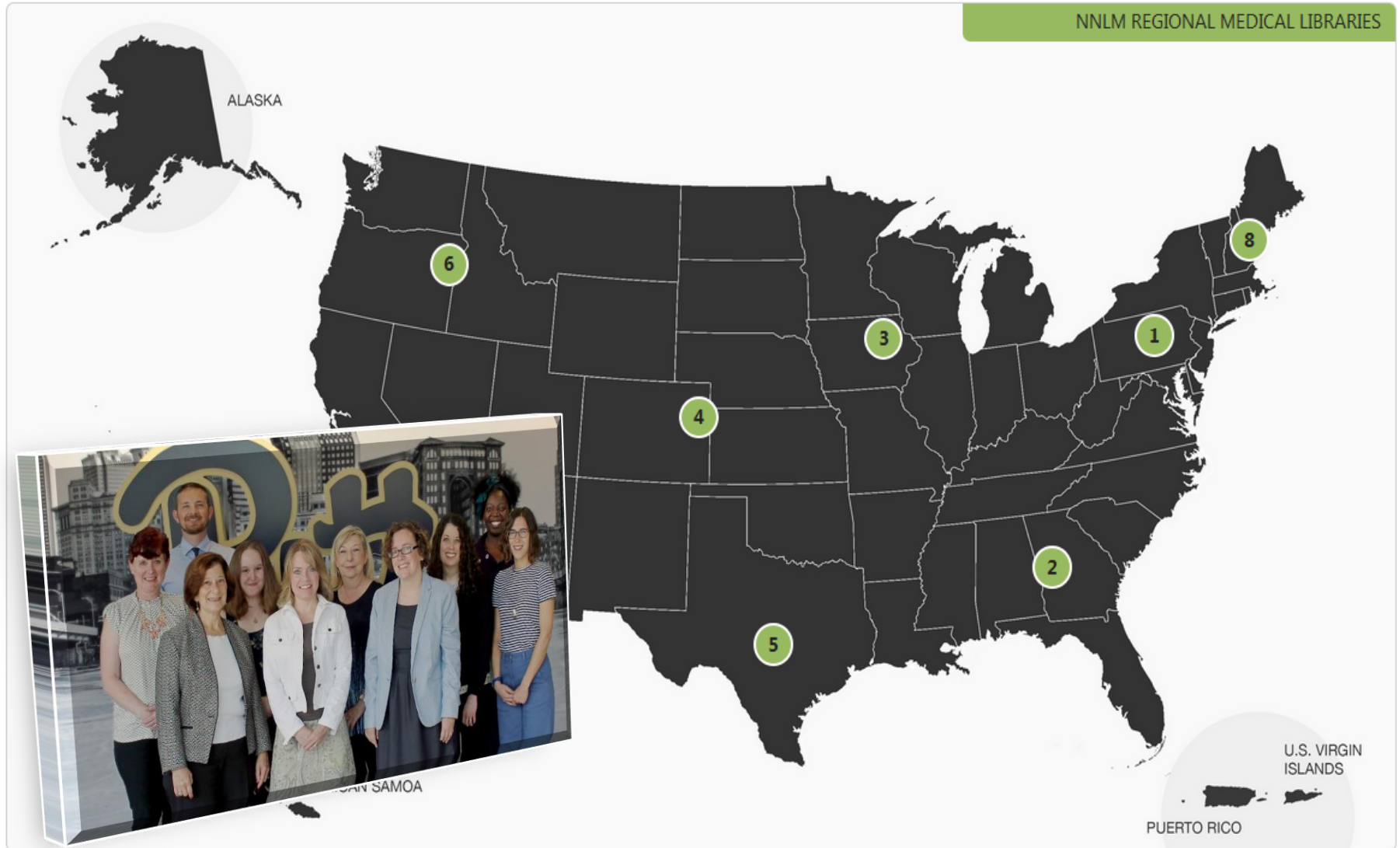
- Amanda J. Wilson appointed Head, National Network Coordinating Office, Library Operations, NLM (01/09/17)
- Mark Ziomek appointed Chief, Public Services Division, Library Operations, NLM (01/09/17)
- NLM Director Dr. Patricia Flatley Brennan

“The National Library of Medicine (NLM), on the campus of the National Institutes of Health in Bethesda, Maryland, has been a center of information innovation since its founding in 1836”.

[URL](#) for the National Library of Medicine

Regional Medical Libraries

Explore the pinpoints below and learn more about the NNLM Regional Medical Libraries and their respective territories.



[URL](#) for National Network of Libraries of Medicine (NNLM) and [URL](#) to NNLM Middle Atlantic Region (NNLM MAR)

NLM K-12 Science and Health Education Topics

Biology

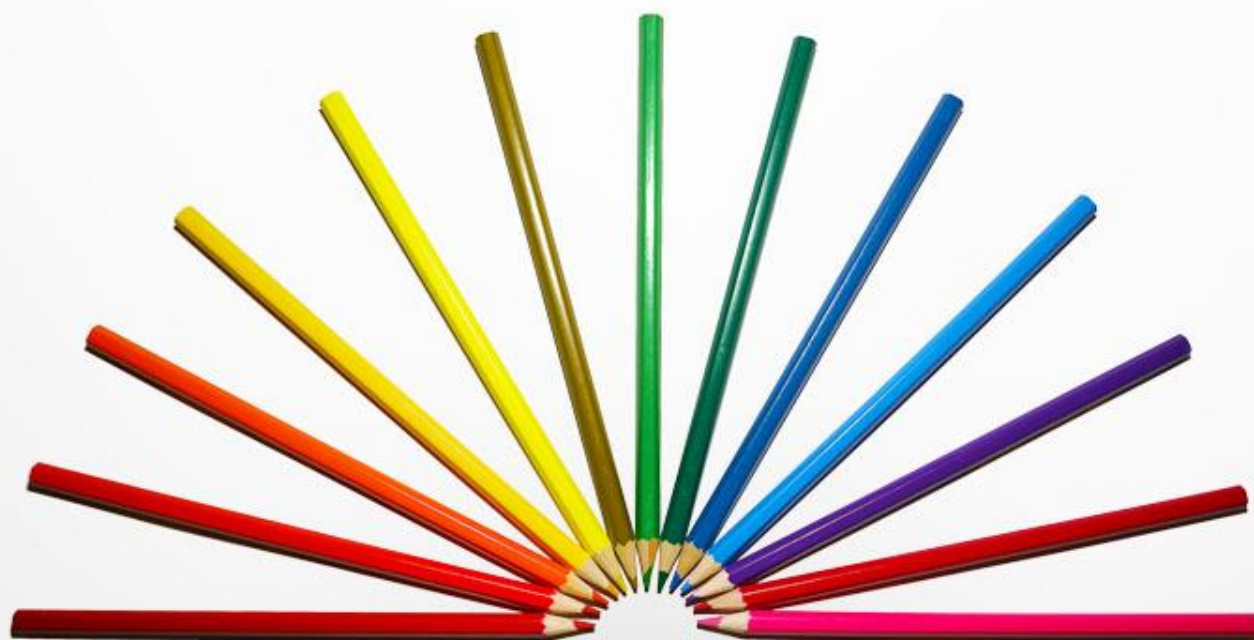
Careers

**Environmental Health
Science/Chemistry**

Forensics and Medical Technology

General Health

Genetics



MedlinePlus

Health Topics

Drugs & Supplements

Videos & Tools

Español



Health Topics

Find information on health, wellness, disorders and conditions



Drugs & Supplements

Learn about prescription drugs, over-the-counter medicines, herbs, and supplements



Videos & Tools

Discover tutorials, health and surgery videos, games, and quizzes



Medical Encyclopedia

Articles and images for diseases, symptoms, tests, treatments

Medical Dictionary from Merriam-Webster

Look up in Dictionary

GO



It's Back-to-School time!

Tips for parents and kids at our [School Health page](#).

1

2

3

4



Today's Health News

[Childhood Cancer Death Rates Continue to Fall: CDC](#)

[For Kids Playing Pokemon Go, Catch These Safety Tips](#)

[Severe Obesity and Heart Failure](#)

[More health news](#)

Clinical Trials

Search [ClinicalTrials.gov](#) for drug and treatment studies.

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NIH MedlinePlus Magazine

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Health Topics



Read about symptoms, causes, treatment and prevention for over 975 diseases, illnesses, health conditions and wellness issues. MedlinePlus health topics are regularly reviewed, and links are updated daily.

Find topics A-Z

[A](#) [B](#) [C](#) [D](#) [E](#) [F](#) [G](#) [H](#) [I](#) [J](#) [K](#) [L](#) [M](#) [N](#) [O](#) [P](#) [Q](#) [R](#) [S](#) [T](#) [U](#) [V](#) [W](#) [XYZ](#) [List of All Topics](#)

Body Location/Systems



Blood, Heart and Circulation



Bones, Joints and Muscles



Brain and Nerves



Digestive System



Ear, Nose and Throat



Endocrine System



Eyes and Vision



Immune System



Kidneys and Urinary System



Lungs and Breathing



Mouth and Teeth



Skin, Hair and Nails



Female Reproductive System



Male Reproductive System

Disorders and Conditions

Cancers

Diabetes Mellitus

Genetics/Birth Defects

Infections

Injuries and Wounds

Mental Health and Behavior

Metabolic Problems

Poisoning, Toxicology, Environmental Health

Pregnancy and Reproduction

Substance Abuse Problems

Diagnosis and Therapy

Complementary and Alternative Therapies

Diagnostic Tests

Drug Therapy

Surgery and Rehabilitation

Symptoms

Transplantation and Donation

Demographic Groups

Children and Teenagers

Men

Population Groups

Seniors

Women

Health and Wellness

Disasters

Fitness and Exercise

Food and Nutrition

Health System

Personal Health Issues

Safety Issues

Sexual Health Issues

Social/Family Issues

Wellness and Lifestyle

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[Home](#) → [Drugs, Herbs and Supplements](#)

Drugs, Herbs and Supplements

Drugs

Learn about your prescription drugs and over-the-counter medicines. Includes side effects, dosage, special precautions, and more.

Browse by generic or brand name:

A B C D E F G H I J K L M N O P Q R S T
U V W X Y Z 0-9

For FDA approved labels included in drug packages, see [DailyMed](#).

Herbs and Supplements

Browse dietary supplements and herbal remedies to learn about their effectiveness, usual dosage, and drug interactions.

[All herbs and supplements](#)

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Related Topics

- [HIV/AIDS Medicines](#)
- [Antibiotics](#)
- [Antidepressants](#)
- [Blood Pressure Medicines](#)
- [Blood Thinners](#)
- [Cancer Alternative Therapies](#)
- [Cancer Chemotherapy](#)
- [Cold and Cough Medicines](#)
- [Complementary and Alternative Medicine](#)



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[Health Topics](#)

[Drugs & Supplements](#)

[Videos & Tools](#)

[Español](#)

[Home](#) → [Videos & Tools](#)

Videos & Tools



Watch health videos on topics such as anatomy, body systems, and surgical procedures. Test your knowledge with interactive tutorials and games. Check your health with calculators and quizzes.



Health Videos

View videos of anatomy and body systems and how diseases and conditions affect them.



Surgery Videos

Find videos of operations and surgical procedures.



Health Check Tools

Check your health with interactive calculators, quizzes and questionnaires.



Games

Boost your health knowledge by playing interactive health games.

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[Understanding Medical Words](#)

[Evaluating Health Information](#)

[To Your Health: NLM update](#)

[NIHSeniorHealth Videos](#)



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[Health Topics](#) [Drugs & Supplements](#) [Videos & Tools](#)

[Español](#)

[Home](#) → [Latest Health News](#)

Latest Health News



Health news from HealthDay, plus recent press announcements from major medical organizations.

[More health news by date](#) [Health news by topic](#)

Tuesday, September 20

[Annual Checkups Are Becoming Wellness Visits](#) (HealthDay)

Appointment may include review of family history, lifestyle and medications, doctor says

Related MedlinePlus Topic: [Health Checkup](#)

[Can Stress Lower a Woman's Fertility?](#) (HealthDay)

Greatest impact is around ovulation time, research suggests

Related MedlinePlus Topics: [Infertility](#), [Stress](#), [Women's Health](#)

[Early Introduction of Eggs, Peanuts May Cut Kids' Allergy Risk](#) (HealthDay)

Allergy specialist suggests existing guidelines on introducing foods may be outdated

Related MedlinePlus Topic: [Food Allergy](#)

[More Cancer Patients Gaining from Immune-Based Treatments](#) (HealthDay)

These therapies help arm the body to fight off malignancy, new report explains

Related MedlinePlus Topic: [Cancer](#)

[More Must Be Done to Fight 'Superbugs': U.S. Gov't Report](#) (HealthDay)

Infectious disease experts say multipronged approach is needed

Related MedlinePlus Topic: [Antibiotic Resistance](#)

Get the latest health news by email [i](#)

GO

[URL](#) for Health News



[Home](#) → [Health Topics](#) → [Food Safety](#)

Food Safety

On this page

Basics

- [Summary](#)
- [Start Here](#)
- [Latest News](#)
- [Prevention and Risk Factors](#)

Research

- [Statistics and Research](#)
- [Clinical Trials](#)
- [Journal Articles](#)

Learn More

- [Related Issues](#)
- [Specifics](#)

Resources

- [Find an Expert](#)

See, Play and Learn

- [Games](#)

For You

- [Children](#)
- [Teenagers](#)
- [Women](#)
- [Seniors](#)
- [Patient Handouts](#)



Summary

Safe steps in food handling, cooking, and storage can prevent [foodborne illness](#). There are four basic steps to food safety at home:

- **Clean** - always wash your fruits and vegetables, hands, counters, and cooking utensils.
- **Separate** - keep raw foods to themselves. Germs can spread from one food to another.
- **Cook** - foods need to get hot and stay hot. Heat kills germs.
- **Chill** - put fresh food in the refrigerator right away.

Get Food Safety updates by email [i](#)

Enter email address

GO

MEDICAL ENCYCLOPEDIA

[Aflatoxin](#)

Statistics and Research

- [CDC Vital Signs: Making Food Safer to Eat](#) (Centers for Disease Control and Prevention)

Clinical Trials

- [ClinicalTrials.gov: Food Safety](#)  (National Institutes of Health)

Journal Articles

References and abstracts from MEDLINE/PubMed (National Library of Medicine)

- [Article: IARC celebrates 50 years of cancer research.](#)
- [Article: Bacterial Spores in Food: Survival, Emergence, and Outgrowth.](#)
- [Article: Country-specific estimates of the incidence of intellectual disability associated with...](#)
- [Food Safety -- see more articles](#)

Find an Expert

- [Centers for Disease Control and Prevention](#)
Also in Spanish
- [Food and Drug Administration](#)
- [Food and Nutrition Information Center](#)
- [USDA Meat and Poultry Hotline](#) (Department of Agriculture, Food Safety and Inspection Service)

Children

- [Food Safety](#) (Department of Agriculture)
- [Food Safety and Nutrition Information for Kids and Teens](#) (Food and Drug Administration)
- [Food Safety for Your Family](#) (Nemours Foundation)
Also in Spanish
- [Once Baby Arrives](#) (Food and Drug Administration)
Also in Spanish
- [The 5-Second Rule](#) (Nemours Foundation)
Also in Spanish





GO

[About MedlinePlus](#) [Site Map](#) [FAQs](#) [Contact Us](#)[Health Topics](#)[Drugs & Supplements](#)[Videos & Tools](#)[Español](#)[Home](#) → [MedlinePlus Guide to Healthy Web Surfing](#)

MedlinePlus Guide to Healthy Web Surfing



What should you look for when evaluating the quality of health information on Web sites? Here are some suggestions based on our experience.

Consider the source -- Use recognized authorities

Know who is responsible for the content.

- Look for an "about us" page. Check to see who runs the site: is it a branch of the Federal Government, a non-profit institution, a professional organization, a health system, a commercial organization or an individual.
- There is a big difference between a site that says, "I developed this site after my heart attack" and one that says, "This page on heart attack was developed by health professionals at the American Heart Association."
- Web sites should have a way to contact the organization or webmaster. If the site provides no contact information, or if you can't easily find out who runs the site, use caution.

Focus on quality--All Web sites are not created equal

Does the site have an editorial board? Is the information reviewed before it is posted?

- This information is often on the "about us" page, or it may be under the organization's mission statement, or part of the annual report.
- See if the board members are experts in the subject of the site. For example, a site on osteoporosis whose medical advisory board is composed of attorneys and accountants is not medically authoritative.
- Look for a description of the process of selecting or approving information on the site. It is usually in the "about us" section and may be called "editorial policy" or "selection policy" or "review policy."
- Sometimes the site will have information "about our writers" or "about our authors" instead of an editorial policy. Review this section to find out who has written the information.

[URL](#) to MedlinePlus Guide to Healthy Web Surfing

[Home](#) → [Health Topics](#) → Evaluating Health Information

Evaluating Health Information

On this page

Basics

- [Summary](#)
- [Start Here](#)
- [Latest News](#)

Learn More

- [Related Issues](#)
- [Specifics](#)

See, Play and Learn

- [Videos and Tutorials](#)

Research

- [Statistics and Research](#)
- [Journal Articles](#)

Resources

- [Find an Expert](#)

For You

- [Seniors](#)
- [Patient Handouts](#)

Summary

Millions of consumers get health information from magazines, TV or the Internet. Some of the information is reliable and up to date; some is not. How can you tell the good from the bad?

First, consider the source. If you use the Web, look for an "about us" page. Check to see who runs the site: Is it a branch of the government, a university, a health organization, a hospital or a business? Focus on quality. Does the site have an editorial board? Is the information reviewed before it is posted? Be skeptical. Things that sound too good to be true often are. You want current, unbiased information based on [research](#).

NIH: National Library of Medicine



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MEDICAL ENCYCLOPEDIA

[Online health information - what can](#)



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Health Topic Pages of Interest



Anatomy

Blood

**Animal Diseases
and Your Health**

**Infectious
Diseases**

**High
Blood
Pressure**

**Disaster
Preparation
and
Recovery**

Flatulence

**Fluid and
Electrolyte
Balance**

**Water
Pollution**

Poisoning

[Home](#) → [Health Topics](#) → [Anatomy](#)

Anatomy

On this page

Basics

- [Summary](#)
- [Start Here](#)

Learn More

- [Related Issues](#)
- [Specifics](#)

See, Play and Learn

- [Images](#)
- [Videos and Tutorials](#)
- [Games](#)

Research

- No links available

Resources

- No links available

For You

- [Children](#)
- [Teenagers](#)
- [Men](#)
- [Women](#)



Summary

Anatomy is the science that studies the structure of the body. On this page, you'll find links to descriptions and pictures of the human body's parts and organ systems from head to toe.

Start Here

- [Anatomy & Physiology](#) (National Cancer Institute)
- [Body Basics](#) (Nemours Foundation)
- [Introduction to the Human Body](#) (National Cancer Institute)
- [Visible Human Project](#) (National Library of Medicine)

Get Anatomy updates by email



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MedlinePlus links to health information from the National Institutes of Health and other federal government agencies. MedlinePlus also links to health

Teens Home

Body

Mind

Sexual Health

Food & Fitness

Diseases &
Conditions

Infections

Q&A

School & Jobs

Drugs & Alcohol

Staying Safe

Recipes

En Español

BODY BASICS

[KidsHealth](#) > [Teens](#) > [Body](#) > [Body Basics Library](#) > About the Body Basics Library

AAA
Text Size



Did you ever wonder what all those complex body systems do? These Body Basics articles explain just how each body system, part, and process works. Use this medical library to find out about basic human anatomy, how it all functions, and what happens when things go wrong.

Blood

Bones, Muscles, and Joints

Brain and Nervous System

Digestive System

Endocrine System

Eyes

Female Reproductive System

Heart and Circulatory System

Immune System

Kidneys and Urinary Tract

Lungs and Respiratory System

Male Reproductive System

[Home](#) → [Health Topics](#) → [Blood](#)

Blood

On this page

Basics

- [Summary](#)
- [Start Here](#)

Learn More

- [Related Issues](#)
- [Specifics](#)

See, Play and Learn

- [Videos and Tutorials](#)
- [Games](#)

Research

- [Clinical Trials](#)
- [Journal Articles](#)

Resources

- [Reference Desk](#)
- [Find an Expert](#)

For You

- [Children](#)
- [Teenagers](#)

Summary

Your blood is made up of liquid and solids. The liquid part, called plasma, is made of water, salts, and protein. Over half of your blood is plasma. The solid part of your blood contains red blood cells, white blood cells, and platelets.

Red blood cells (RBC) deliver oxygen from your lungs to your tissues and organs. White blood cells (WBC) fight infection and are part of your immune system. Platelets help blood to clot when you have a cut or wound. Bone marrow, the spongy material inside your bones, makes new blood cells. Blood cells constantly die and your body makes new ones. Red blood cells live about 120 days, and platelets live about 6 days. Some white blood cells live less than a day, but others live much longer.

There are four blood types: A, B, AB, or O. Also, blood is either Rh-positive or Rh-negative. So if you have type A blood, it's either A-positive or A-negative. Which type you are is important if you need a



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MEDICAL ENCYCLOPEDIA

[Arterial stick](#)

[Blood typing](#)

[Capillary sample](#)



Select Game Type



Quick game - random patients

Can't be bothered about high score lists and other fancy stuff? Play as many times as you like with randomly selected patients!



Mission based game

Want a bigger challenge, missions, achievements and a chance to end up at the high score list? Then this is the choice for you!



Quick game - same patients

Each time you play, the three patients are always the same ones, as are their blood types. Just like the old blood typing game!

[Home](#) → [Health Topics](#) → [Stem Cells](#)

Stem Cells

On this page

Basics

- [Summary](#)
- [Start Here](#)
- [Latest News](#)

Learn More

- [Related Issues](#)
- [Specifics](#)

See, Play and Learn

- [Videos and Tutorials](#)

Research

- [Statistics and Research](#)
- [Clinical Trials](#)
- [Journal Articles](#)

Resources

- [Reference Desk](#)
- [Find an Expert](#)

For You

- [Children](#)
- [Teenagers](#)
- [Patient Handouts](#)

Summary

Stem cells are cells with the potential to develop into many different types of cells in the body. They serve as a repair system for the body. There are two main types of stem cells: embryonic stem cells and adult stem cells.

Stem cells are different from other cells in the body in three ways:

- They can divide and renew themselves over a long time
- They are unspecialized, so they cannot do specific functions in the body
- They have the potential to become specialized cells, such as muscle cells, blood cells, and brain cells



Get Stem Cells updates by email

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MEDICAL ENCYCLOPEDIA

[Bone marrow \(stem cell\) donation](#)

[Graft versus host disease](#)

to SAVE someone's LIFE?



0:03 / 5:27

Becoming a Blood Stem Cell Donor

[URL](#) for Becoming a Blood Stem Cell Donor Video (NCI)



Biology, General Health, HIV/AIDS and Drug Information Resources



PubMed

PubMed comprises more than 26 million citations for biomedical literature from MEDLINE, life science journals, and online books. Citations may include links to full-text content from PubMed Central and publisher web sites.

PubMed Commons



Featured comment - Apr 20

Cicely Saunders Journal Club & author @GarridoMelissa discuss evaluation of cost-saving effects of palliative care.
1.usa.gov/1LJSwMN

Using PubMed

[PubMed Quick Start Guide](#)

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PubMed Tools

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[Clinical Queries](#)

[Topic-Specific Queries](#)

More Resources

[MeSH Database](#)

[Journals in NCBI Databases](#)

[Clinical Trials](#)

[E-Utilities \(API\)](#)

[LinkOut](#)

You are here: [NCBI](#) > [Literature](#) > [PubMed](#)

[Write to the Help Desk](#)

GETTING STARTED

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[BLAST](#)

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[PubMed Health](#)
[GenBank](#)
[Reference Sequences](#)
[Gene Expression Omnibus](#)

NCBI INFORMATION

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[Research at NCBI](#)
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[URL](#) for PubMed


US National Library of Medicine
National Institutes of Health

PMC

[Journal List](#) [Advanced](#)

Search

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PMC

PubMed Central® (PMC) is a free full-text archive of biomedical and life sciences journal literature at the U.S. National Institutes of Health's National Library of Medicine (NIH/NLM).

PubReader

A whole new way to read scientific literature at PubMed Central



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[Tagging Guidelines Mail List](#)

Other Resources

[PMC International](#)
[Text Mining Collections](#)
[E-utilities](#)
[NLM LitArch](#)
[PMC Citation Search](#)
[PMC Accessibility](#)

4 MILLION Articles

are archived in PMC.

Content provided in part by:

1924

Full Participation
Journals

316

NIH Portfolio
Journals

3919

Selective Deposit
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[How Papers Get Into PMC](#)
[NIH Manuscript Submission System](#)
[My Bibliography](#)
[PMCID/PMID/NIHMSID Converter](#)

Use a Delivery Service

When you need articles on a routine basis, consider using the PubMed Order option under the Send to menu.

- **To register with a delivery service**

- The NLM-sponsored **Loansome Doc** is PubMed's default article service; full-text articles may be ordered from participating libraries
- Alternative document delivery providers are listed in **My NCBI** under **Site Preferences, Document Delivery**.

- **Register for Loansome Doc**

1. Access Loansome Doc at:
<https://docline.gov/loansome/login.cfm>
2. Click **Sign Up!**

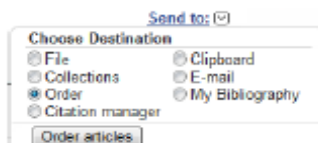


- Search for a provider in your area
- Carefully review the displayed information to identify a library that will provide the service you desire as fees and services vary among the libraries
- It is recommended you contact the selected library prior to registering
- Always contact the library after registering with Loansome Doc and before the first order

Order Articles

First register for a document ordering service. Next, from the PubMed search results screen:

- Click the check box next to the desired citation(s); move to other pages within your results to select additional citations or hold citations on the Clipboard before ordering
- From the **Send to** box, select **Order**; then click the **Order Articles** button



- Follow the on-screen directions to receive articles from participating institutions

For More Information

In the United States, contact the National Network of Libraries of Medicine (NNLM) at <https://nnlm.gov/>. Network members offering Loansome Doc are listed at: <https://nnlm.gov/members/>.

In Canada, contact the National Research Council Canada Institute for Scientific and Technical Information (NRC-CISTI) at 1-800-668-1222 for library service information.

Funded under Cooperative Agreement No. UG4LM012341 with UCLA and awarded by the DHHS, NIH, National Library of Medicine, and developed and updated by the NNLM staff.

Reviewed: June 2017

*This brochure is freely available at:
<https://nnlm.gov/trifolds/fulltexttri.pdf>*



U.S. National Library of Medicine

Full Text and PubMed®

PubMed® (<http://www.pubmed.gov/>) is the National Library of Medicine (NLM)'s biomedical journal citation database and does not include copies of journal articles.

However, PubMed does offer links to the full text of articles when those links are available.

Full Text articles offered through

- **PMC** (formerly PubMed Central), NLM's free digital archive of biomedical and life sciences journal literature
- **NCBI Bookshelf** of biomedical books and government reports
- Publishers who offer free or pay-per-view access to articles on their websites
- Institutional, medical and public libraries
- NLM's **Loansome Doc** document delivery service

LinkOut

Links to full text resources from PubMed are available through a service called **LinkOut** which directs searchers to full text sites external to PubMed. Copyright of these materials remains with the publisher. Review all copyright restrictions set forth by the full text provider before reproducing, redistributing, or making commercial use of material accessed through PubMed LinkOut.



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IQWiG



National Heart, Lung,
and Blood Institute



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Health and Care Excellence



New AIDSinfo
infographics make
HIV-related concepts
easy to understand!



News

April 22, 2016

[AIDSinfo At-a-Glance Issue 10](#)

April 13, 2016

[Animal Study Paints Picture of the Earliest Immune Responses to HIV](#)

April 11, 2016

[NIH Sequences Genome of a Fungus that Causes Life-Threatening Pneumonia](#)

[Search News](#)



Guidelines

Federally approved HIV/AIDS medical practice guidelines

- [View and Download the Guidelines](#)
- [Adult ARV Guidelines](#)
- [Pediatric ARV Guidelines](#)
- [Perinatal Guidelines](#)
- [Adult OI Guidelines](#)
- [Pediatric OI Guidelines](#)



Clinical Trials

Search tool to find HIV/AIDS-related clinical trials

- [HIV/AIDS-Related Clinical Trials](#)
- [HIV Preventive Vaccine Clinical Trials](#)
- [HIV Therapeutic Vaccine Clinical Trials](#)



Drugs

Information on HIV/AIDS-related drugs

- [HIV/AIDS-Related Drugs](#)
- [FDA-Approved HIV/AIDS Drugs](#)
- [Investigational HIV/AIDS Drugs](#)

[URL](#) for AIDSinfo and [URL](#) for AIDSinfo Infographics

[URL](#) for AIDSinfo Education Materials

Toxicology Data Network

<https://toxnet.nlm.nih.gov/>

Search databases on hazardous chemicals, toxic releases, and environmental health, including LactMed and:

- **ChemIDplus** – Chemical Identification & Dictionary provides information on structure, property, and chemical toxicity for over 400,000 chemicals.
- **HSDB** – *Hazardous Substances Data Bank* with biological and physical data including animal/human toxicity studies on over 5,000 hazardous chemicals.
- **DART** – *Developmental and Reproductive Toxicology* literature and
- **TOXLINE** – *Toxicology Literature Online*, with citations from toxicological journals including those in PubMed.

DAILYMED

<https://dailymed.nlm.nih.gov/dailymed/>

Over 93,000 federally approved prescription drug labels submitted by manufacturers including descriptions, usage, warnings, and patient counseling information.

Dietary Supplement Label Database

<https://dsld.nlm.nih.gov/dsld/>

This new label database includes information from 50,500 dietary supplement labels for on and off-market drugs. Labels include product information supplement facts and ingredients.

<https://medlineplus.gov/>

Access patient-oriented online information on over 975 health topics. Click **Drugs & Supplements** or search by drug name or disease. Other topics include: Drug Safety, Vitamins, Over the Counter Medicines, Pain Relievers, and Herbal Medicine.

Mobile Sites

<https://www.nlm.nih.gov/mobile/>

Access these drug-related mobile sites

- AIDSinfo
- DailyMed
- Drug Information Portal
- PubMed Mobile
- PubMed for Handhelds
- TOXNET

Drug Information from the NLM

NLM Drug Information Subject Guide

https://www.nlm.nih.gov/services/Subject_Guides/druginformation/

For more information, please visit:

<https://www.nlm.nih.gov/learn-about-drugs.html>

Funded in whole or in part with Federal funds from the National Library of Medicine (NLM), National Institutes of Health (NIH), under cooperative agreement No. UG4LM012340 with the University of Maryland, Baltimore. This resource is freely available at:

<https://nmlm.gov/training/resources/drugstri.pdf>

Reviewed: January 2017

Drug Information @NLM

The U.S. National Library of Medicine (NLM) provides a variety of informational databases on drugs and herbal supplements.

Portals – search across multiple databases

- **Drug Information Portal** – search across most NLM databases.
- **TOXNET** – focus on toxic chemicals

Drug Label Databases

- **DailyMed** – FDA approved drug labels
- **Dietary Supplement Label Database**

Drug Information Resources

- **AIDSinfo** – AIDS drug and vaccines
- **Clinical Trials** – Drugs in clinical trials
- **LactMed** – Drugs affecting lactating mothers and breastfed infants
- **LiverTox** – Drug-induced liver injury cases
- **MedlinePlus** – For patients, families, and health consumers.
- **Pillbox** – Pill identifier
- **PubChem** – Chemical information including components of drugs.
- **PubMed** – Article citations
- **RXNorm** – Drug name listing



Careers

[Home](#) → [Health Topics](#) → [Health Occupations](#)

Health Occupations

Also called: **Health careers, Health professions, Medical occupations, Medical professions**

On this page

Basics

- [Summary](#)
- [Start Here](#)
- [Latest News](#)

Learn More

- [Related Issues](#)
- [Specifics](#)

See, Play and Learn

- No links available

Research

- [Statistics and Research](#)
- [Journal Articles](#)

Resources

- [Find an Expert](#)

For You

- No links available


Summary

Every day, around the clock, people who work in the health care industry provide care for millions of people, from newborns to the very ill. In fact, the health care industry is one of largest providers of jobs in the United States. Many health jobs are in hospitals. Others are in nursing homes, doctors' offices, dentists' offices, outpatient clinics and laboratories.

To work in a health occupation, you often must have special training. Some, like doctors, must have more than 4 years of college.

Bureau of Labor Statistics



Get Health Occupations updates by email 

GO

MEDICAL ENCYCLOPEDIA


[Types of health care providers](#)

OCCUPATIONAL OUTLOOK HANDBOOK

Search Handbook

[Go](#)[Occupational Outlook Handbook](#) > [Healthcare](#) >








Healthcare Occupations

[EN ESPAÑOL](#)[PRINTER-FRIENDLY](#) 

Employment of healthcare occupations is projected to grow 18 percent from 2016 to 2026, much faster than the average for all occupations, adding about 2.3 million new jobs. Healthcare occupations are projected to add more jobs than any of the other occupational groups. This projected growth is mainly due to an aging population, leading to greater demand for healthcare services.

The median annual wage for healthcare practitioners and technical occupations (such as registered nurses, physicians and surgeons, and dental hygienists) was \$63,420 in May 2016, which was higher than the median annual wage for all occupations in the economy of \$37,040.

Healthcare support occupations (such as home health aides, occupational therapy assistants, and medical transcriptionists) had a median annual wage of \$27,910 in May 2016, lower than the median annual wage for all occupations in the economy.

	OCCUPATION 	JOB SUMMARY	ENTRY-LEVEL EDUCATION 	2016 MEDIAN PAY 
	Athletic Trainers	Athletic trainers specialize in preventing, diagnosing, and treating muscle and bone injuries and illnesses.	Bachelor's degree	\$45,630
	Audiologists	Audiologists diagnose, manage, and treat a patient's hearing, balance, or ear problems.	Doctoral or professional degree	\$75,980
	Chiropractors	Chiropractors treat patients with health problems of the neuromusculoskeletal system, which includes nerves, bones, muscles, ligaments, and tendons. They use spinal adjustments and manipulation, as well as other clinical interventions, to manage patients' health concerns, such as back and neck pain.	Doctoral or professional degree	\$67,520
	Dental Assistants	Dental assistants perform many tasks, ranging from providing patient care and taking x rays to recordkeeping and scheduling appointments. Their duties vary by state and by the dentists'.	Postsecondary nondegree award	\$36,940

Haz-Map



Hazardous Agents



Occupational Diseases



High Risk Jobs



Non-Occupational Activities



Industries



Job Tasks



Processes



Symptoms/Findings

[Haz-Map®](#): Information on Hazardous Chemicals and Occupational Diseases
by
Jay A. Brown, M.D., M.P.H.



Environmental Health Science/Chemistry



National Library of Medicine

Environmental Health Student Portal

Connecting Middle School Students to Environmental Health Information

[Home](#)[Air Pollution](#)[Chemicals](#)[Climate Change](#)[Water Pollution](#)[Videos](#)[Games](#)[Experiments](#)[For Teachers](#)[Go](#)[Print this Page](#)

What is Environmental Health ?

Environmental Health is the interrelationship between human health and the environment, either natural or manmade.

[Learn More](#)

1 2 3 4 5

Interested in a trailer of our animations about characteristics, uses, and health effects of hazardous chemicals?

Please, click [here](#) to preview.



Air Pollution



Chemicals



Climate Change



Water Pollution



U.S. National Library
of Medicine

Specialized Information Services

U.S. National Library of Medicine

National Institutes of Health

U.S. Department of Health and Human Services

[What is Environmental Health?](#) | [About](#) | [Site Map](#)
[Copyright](#) | [Privacy](#) | [Freedom of Information Act](#) | [Accessibility](#)
[Videos and Players](#)

Contact Us: tehip@teh.nlm.nih.gov

[URL](#) to Environmental Health Student Portal

Environmental Health Student Portal Videos

Plastics



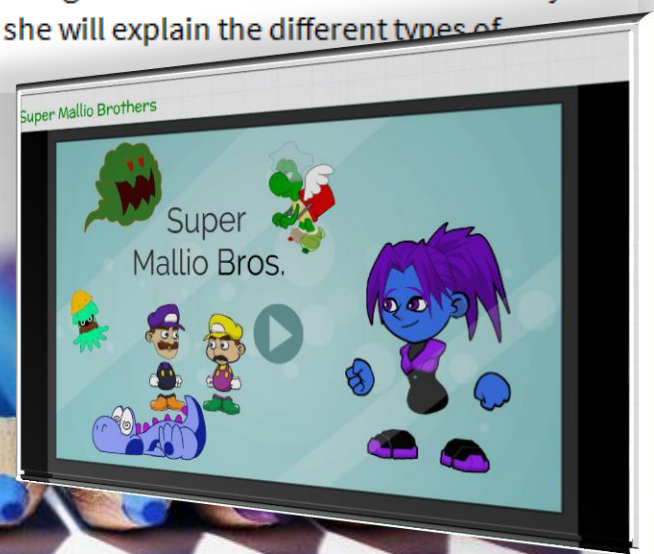
Super Mallio Brothers (National Library of Medicine) - This parody on a classic video game teaches students about the dangers of the chemicals used in the production of plastics for the environment and human health.

Farmtastic Plastic (National Library of Medicine) - In this animated adventure, Polly Mer guides Olivia through the process of “growing” plastics on a plastics farm, introducing her to concepts such as monomers and polymers in a game-like environment.

Phthalamon: Phthalates and Your Health (National Library of Medicine) - This lighthearted animation tackles phthalates, the chemicals used to make plastics more durable and flexible, and the risks they present to human health.

World of Plasticraft (National Library of Medicine) - Journey with Pollymer and two gameworld adventurers to a faraway land of Plasteroth. Here, leading a quest to forge the powerful Recy'clar sword, she will explain the different types of plastics and their recycling programs.

[URL](#) for Chemicals: Plastics Videos



[Home](#)[Text Version](#)[Neighborhoods](#)[Locations](#)[Chemicals](#)[For Educators](#)[Español](#)

City

[View](#)

Farm

[View](#)

Port

[View](#)

US Southwest

[View](#)

Town

[View](#)

What's New

- Visit the [Storms and Floods](#) page to learn about preparation and clean-up efforts after storms, hurricanes, and tornadoes.
- Visit the [Wildfires](#) page to learn why wildfires are a concern.
- National Lead Poisoning Prevention Week is October 22 - 28, 2017.



Household Products Database

Health & Safety Information on Household Products

National Institutes of Health
National Library of Medicine
Specialized Information Services

[Home](#)[Products](#)[Manufacturers](#)[Ingredients](#)[Health Effects](#)

Quick Search

Product, Manufacturer etc...[Advanced Search](#) ▶

Browse by Category

[Inside the Home](#)[Home Maintenance](#)[Personal Care](#)[Landscape/Yard](#)[Arts & Crafts](#)[Pet Care](#)[Pesticides](#)[Auto Products](#)[Home Office](#)[Commercial / Institutional](#)

Browse A-Z

[Product Names](#)[Types of Products](#)[Manufacturers](#)[Ingredients](#)

Support

[About the Database](#)[FAQ](#)[Product Recalls](#)[Help](#)[Glossary](#)[Contact Us](#)[More Resources](#)

Inside the Home

Air Freshener, Bleach, Cleaners,
Toilet Bowl Cleaner, and more...

What's under your kitchen sink, in your garage, in your bathroom, and on the shelves in your laundry room?

Learn more about what's in these products, about potential health effects, and about safety and handling.



Home Maintenance

Caulk, Grout, Insulation, Paint,
Putty, Stain, and more...



Personal Care

Antiperspirant, Hair Spray, Makeup,
Shampoo, Soap and more...



Landscape/Yard

Fertilizer, Lawn Care, Swimming
Pool Products, and more...



Arts & Crafts

Adhesive, Glaze, Glue, Primer,
Varnish, and more...



Pet Care

Flea & Tick Control, Litter,
Stain/Odor Remover, and more...



Pesticides

Animal Repellent, Fungicide,
Herbicide, Insecticide, and more...



Auto Products

Brake Fluid, De-icer, Lubricant,
Sealant, and more...



Home Office

Ink, Toner, Correction Fluid,
Electronics Cleaners, Pens and
more...



Commercial/ Institutional

Cleaner, Disinfectant, Floor Polish,
Insecticide, Lubricant, Solvent, and
more...

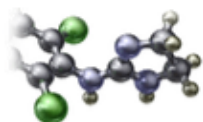
For advice if someone is poisoned, call your local Poison Center at 1-800-222-1222.

[Home](#) | [Products](#) | [Manufacturers](#) | [Ingredients](#) | [Health Effects](#)

[URL](#) for Household Products Database



[TOXNET Home](#) > [ChemIDplus Lite](#)



ChemIDplus

A TOXNET DATABASE

[Lite](#) • [Browse](#) • [Advanced](#)

SEARCH ChemIDplus

[BROWSE ChemIDplus](#)

[ADVANCED SEARCH](#)

(automatic) ▼

(automatic) ▼

Search

Search for multiple terms by using this format: 50-00-0|50-01-1|50-02-2

Support

Resources

[Help](#)
[Fact Sheet](#)
[Sample Record](#)
[TOXNET FAQ](#)

Contact Us

Email: tehip@tehl.nlm.nih.gov
Telephone: (301) 496-1131
Fax: (301) 480-3537

About ChemIDplus



What is ChemIDplus?

Chemical database is a dictionary of over 400,000 chemicals (names, synonyms, and structures). ChemIDplus includes links to NLM and other databases and resources, including links to federal, state and international agencies. [ChemIDplus Lite](#) is designed for simple searching on name or registry. [ChemIDplus Advanced](#) helps users draw their own structures and perform similarity and substructure searches.

Updates: ChemIDplus records are updated daily.

Did you know



How do I lease/license the TOXNET databases?

The following TOXNET databases are available for lease: ChemIDplus, DIRLINE, CCRIS, GENE-TOX, HSDB, and TOXLINE.

For further information visit [Leasing Data](#) from the National Library of Medicine.

[More FAQs](#)

Environmental Health & Toxicology

Resources on environmental health and toxicology

[Visit Site](#)



NLM iOS Apps

Bohr Thru



Candy Crush Style Game focused on familiarizing students with chemical elements and their structures.

Base Chase



Players learn the bases of DNA by completing unique DNA strands for a variety of animals.

Run4Green



Mario-style game focused on teaching the importance of environmental conservation.

[URL](#) for iTunes Free Apps from NLM



MedlinePlus Environmental Health

Air Pollution

Drinking Water

Hazardous Waste

Molds

Noise

Water Pollution





Files:
Global Warming



CHAPTER 1:
GREEN-FEAR ITSELF



CHAPTER 2:
CARBON COPY



CHAPTER 3:
BLIND DATA



CHAPTER 4:
ANIMALS MOVE



CHAPTER 5:
HURT ANIMALS RETURN

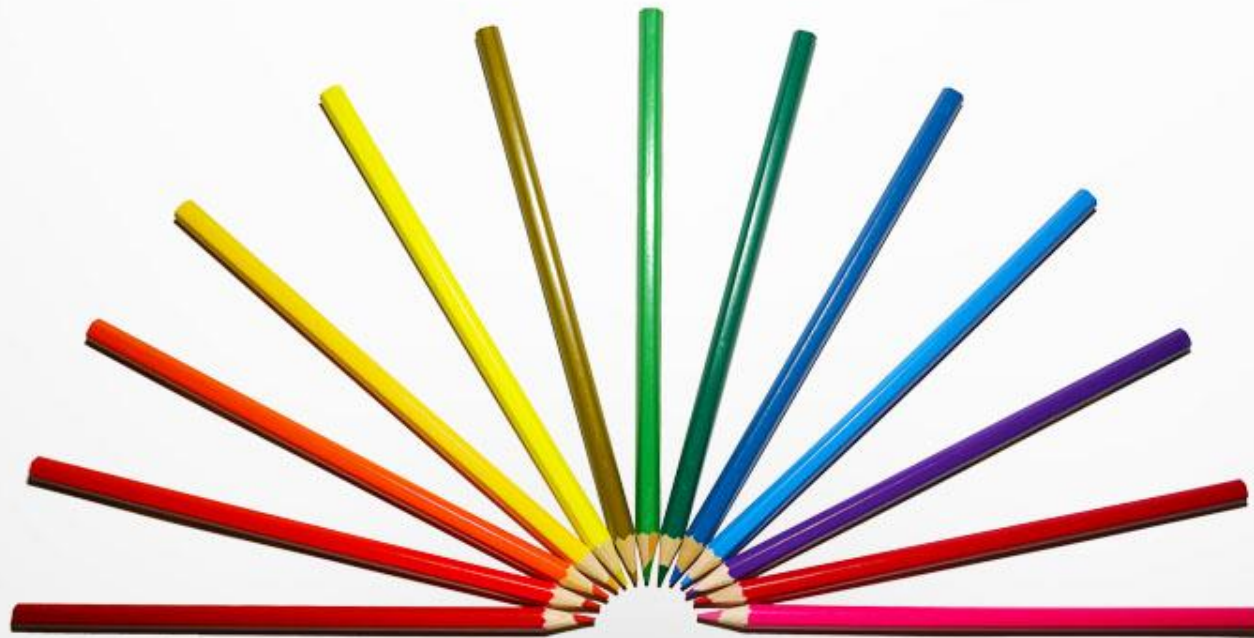


CHAPTER 6:
HOPE

CHAPTER 7:
HOPE

CHAPTER 8:
HOPE

CHAPTER 9:
HOPE



Genetics



Your Guide to Understanding
Genetic Conditions

[Health Conditions](#)[Genes](#)[Chromosomes & mtDNA](#)[Resources](#)[Help Me Understand Genetics](#)

Genetics Home Reference provides consumer-friendly information about the effects of genetic variation on human health.



Health Conditions

More than 1,100 health conditions, diseases, and syndromes

[Browse A-Z](#)

Genes

More than 1,300 genes and the health effects of genetic changes

[Browse A-Z](#)

New & Updated

New

[7q11.23 duplication syndrome](#)[Stüve-Wiedemann syndrome](#)[fibrochondrogenesis](#)[Past 12 Months](#)

Updated

[antiphospholipid syndrome](#)[infantile-onset ascending hereditary spastic paralysis](#)[Poland syndrome](#)[spondyloepiphyseal dysplasia congenita](#)[Past 12 Months](#)

Bulletins

[URL](#) for Genetics Home Reference

[URL](#) for Handbook, Help Me Understand Genetics

Home

Topics

Labs &
Experiments

Teacher
Resources

Careers in
Genetics

Highlights

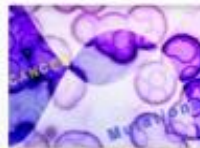
search...

GO



Cell Biology

The study of the cell, including mitosis and meiosis



Genetic Conditions

Conditions caused by gene variations or mutations



DNA Forensics

The application of genetic testing for legal purposes



DNA, Genes, Chromosomes

The building blocks of inheritance



Evolution

Processes by which organisms are changed over time



Top Issues In Genetics

Select genetic topics of popular interest



Heredity/Inheritance Patterns

The genetic transmission of traits



Biostatistics

The use of mathematics to investigate life science related problems



Epigenetics/Inheritance and the Environment

The genome's dynamic response to the environment



Biotechnology

Biological techniques used to enhance products



HARRY POTTER'S WORLD

RENAISSANCE SCIENCE, MAGIC, AND MEDICINE

[HOME](#)[EXHIBITION](#)[EDUCATION RESOURCES](#)[TRAVELING INFORMATION](#)[EXHIBITION](#)

“There was a lot more to magic,
as Harry quickly found out,
than waving your wand
and saying a few funny words.”

— *Harry Potter and the Philosopher's Stone*,
J. K. Rowling



Illustration of an owl
Konrad Gesner,
Historiae Animalium, 1551

EXHIBITION



EDUCATION RESOURCES



TRAVELING INFORMATION



[URL](#) for Harry Potter's World



Additional Resources/Services

[INTRODUCTION](#)[ABOUT HEALTH STATISTICS](#)[FINDING HEALTH STATISTICS](#)[SUPPORTING MATERIAL](#)[SITE MAP](#)

Finding and Using Health Statistics

Health Statistics provide information for understanding, monitoring, improving and planning the use of resources to improve the lives of people, provide services and promote their well being.

This course describes the range of available health statistics, identifies their sources and helps you understand how to use information about their structure as you search.

This course links to numerous examples. Each example opens in a separate page of your browser. To return to the course close the new window -- the course window remains open and you can proceed.

Parts of the Course

The course is divided into 2 main parts

- ▶ [About Health Statistics](#) - which describes these sources and explores how they are created and
- ▶ [Finding Health Statistics](#) - which presents strategies you can use to successfully search for the material

[Start Here ▶](#)

Supporting Material

The course also contains supporting material including:


- ▶ [A Glossary](#)
- ▶ [Examples of webpages where you can find health statistics](#)
- ▶ [Exercises](#)

URL for Finding and Using Health Statistics



Refine by:

Collections 


Subjects 

Authors 

Titles 

Formats 

Languages 

Dates by Range 



Digital Collections is the National Library of Medicine's free online resource of biomedical books and still and moving images. All of the content in Digital Collections is freely available worldwide and, unless otherwise indicated, in the public domain. Digital Collections provides unique access to NLM's rich resources.





ABOUT
THE PROJECT

HEALTH
INFORMATION
LITERACY

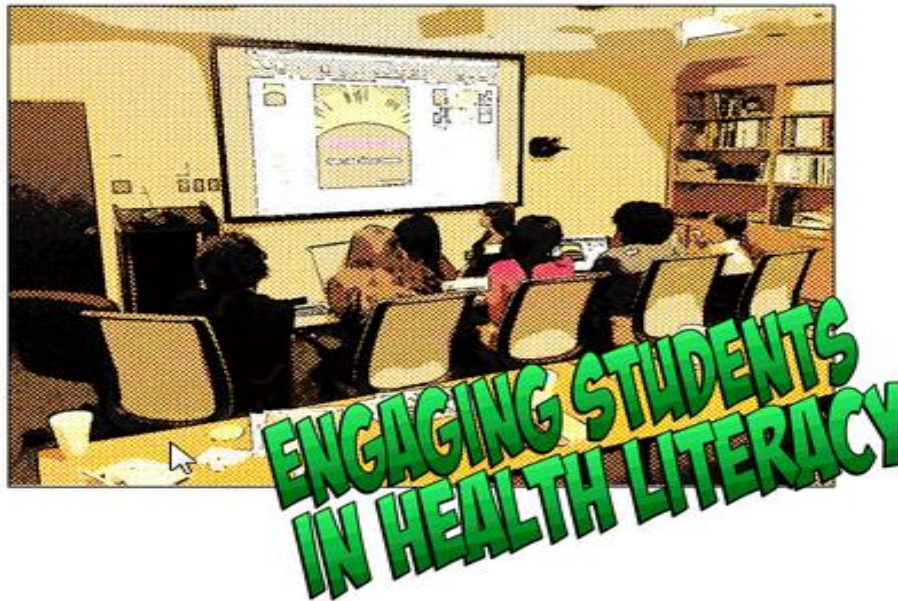
LITERACY
SUPER
POWERS

CURRENT
EDITIONS

Health Careers Comic Book Project

About the Project

The South Carolina AHEC partnered with the U.S. National Library of Medicine (NLM) and three Lowcountry high schools for a health information literacy project. Students were charged with researching public health themes and creating educational comic books geared toward middle school students. In the process, the high school students learned about helpful resources from the NLM, gained valuable communication, research and creative skills, increased their knowledge about health careers and improved their health literacy.



[URL](#) for Health Careers Comic Book Project (SC AHEC)



Outreach Activities & Resources

SPECIALIZED INFORMATION SERVICES

National Library of Medicine
National Institutes of Health



[SIS Home](#) | [About Us](#) | [A-Z Index](#) | [SIS News](#) | [Contact Us](#)

Search This Site

[SIS Home](#) > [Outreach Activities & Resources](#) > [Students and Educators](#)

[+ Share](#)

Text size: [S](#) [M](#) [L](#) [XL](#)

Expand/Collapse [+](#) [-](#)

Outreach Projects

[Disaster Health](#)
[Environmental Health](#)
[Health Professionals](#)
[HIV/AIDS](#)
[Library Science](#)
[Minority and Ethnic Populations](#)
[Specific Populations](#)
[Students/Educators](#)

Resource & Tools

[Funding Opportunities](#)
[Training Resources](#)
[Promotional Materials](#)

About Us

[Outreach & Special Populations Branch](#)
[NLM Outreach Programs](#)
[Specialized Information Services Division](#)
[Staff Publications](#)

Announcements

See the Outreach Blog for the latest news!



Connect with NLM

K-12 Science and Health Education

Working with teachers and scientific experts to provide **FREE** reliable resources to help introduce, reinforce, and supplement education programs.

Get the latest news! [+](#)

Biology [+](#)

Careers [+](#)

Disasters [+](#)

Environmental Health Science/Chemistry [+](#)

Forensics and Medical Technology [+](#)

Games [+](#)

General Health [+](#)

[URL](#) for K-12 Science and Health Education (NLM-SIS)

professional development

Class Descriptions

The NNLM educational program consists of a mix of in-person and online opportunities. The classes listed below may be customized for any audience. Additionally, MAR coordinators are available to discuss your audiences' specific needs and tailor presentations that introduce information resources to address specific demographic, biomedical and health information needs. Contact nnlmmar@pitt.edu to request a class or presentation.

Use the sidebar navigation to view our Training Schedule for upcoming session dates.

Note: Classes that do not include MAR staff in their list of instructors are only available to the Middle Atlantic Region when offered online by another region or office. Look for any of the following instructors:

- Renae Barger
- Michelle Burda
- Lydia Collins
- Kate Flewelling
- Elaina Vitale

[ABCs of DNA: Unraveling the Mystery of Genetics...](#)

[Activate, Collaborate, and Educate: Health...](#)

[Are You Ready? Essential Disaster Health...](#)

[Beyond an Apple a Day: Providing Consumer...](#)

[ACRL Research Data Management Roadshow](#)

[American Indian Health Information Resources](#)

[Augmented Reality, Virtual Reality, & Health](#)

[Beyond the SEA Monthly Web Seminar](#)

IN THIS SECTION

Overview

Class Descriptions

Training Schedule

Past Presentations

Educational & Print Materials

Other Free Materials

Resource Guides ▾

FILTER CLASSES

Title

Region/Office

- ☒ - Any -
- ☐ MAR
- ☐ SEA
- ☐ GMR

[URL](#) to Class Descriptions, [URL](#) to NNLM MAR Training Schedule and [URL](#) to NNLM MAR Membership (DE, NJ, NY & PA) [URL](#) to NNLM Training Schedule and [URL](#) to NNLM web site to locate your Regional Medical Library



MAR HOME

About MAR ▾

Members ▾

Funding ▾

Professional Development ▾

MIDDLE ATLANTIC REGION

Order Free Educational & Print Materials

[Network Members](#) from the Middle Atlantic Region (Pennsylvania, Delaware, New York and New Jersey) can use the form below to order free educational and print materials from NNLM.

If you are located in another part of the United States, [find your region](#) to view materials that are available to you.

NOTE: Maximum order quantity per item: 50. Availability of items is subject to supplies on hand.

IN THIS SECTION

[Overview](#)

[Class Descriptions](#)

[Training Schedule](#)

[Past Presentations](#)

[Educational & Print Materials](#)

[Other Free Materials](#)

[URL](#) for Order Free Educational & Print Materials (DE, NJ, NY & PA)

EXHIBITION PROGRAM

National Library of Medicine
Building 38, Room 1E-21
8600 Rockville Pike
Bethesda, MD 20894
nlmexhibition@mail.nih.gov
www.nlm.nih.gov/exhibition/education.html
www.facebook.com/NLMEducation

EDUCATION SERVICES

over: A lecture program for Harry
Porter's World: Renaissance Science,
Magic, and Medicine at Mercer
University, Macon Georgia



imagine history!
reimagine your world



U.S. DEPARTMENT OF HEALTH
& HUMAN SERVICES

welcome!

Below: Dr. Victoria Cargill from the Office of
AIDS Research, National Institutes of Health
addresses young visitors to *Against the Odds:*
Making a Difference in Global Health



Exhibition Program Education Services engages, encourages, and serves educators, as well as students of all ages who are researching a topic or simply curious about the world around them. We develop resources that examine and interpret the ongoing interaction between science, society, and the humanities, in collaboration with educators and library professionals.



We provide online educational resources for elementary to higher education levels, as well as onsite exhibition tours, school field trips, and professional development programs for K-12 educators. For more information, please visit our website!



Below: Library Media Specialists from the District of Columbia public schools work together during a professional development session.

Below: "The World of Global Health" interactive, *Against the Odds: Making a Difference in Global Health*

Thank You



Lydia N Collins

Consumer Health Coordinator

LYDIA@PITT.EDU



URL for NNLM MAR

This project is funded by the National Library of Medicine, National Institutes of Health, Department of Health and Human Services, under Cooperative Agreement Number UG4LM012342 with the University of Pittsburgh, Health Sciences Library System.